

Quantum Gravity Corrections to the Hawking Temperature of Schwarzschild black hole in quintessence (with state parameter $\tilde{\omega} = -1/3$)

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A study of the quantum gravity corrections to the Hawking Temperature of Schwarzschild black hole in quintessence (with state parameter $\tilde{\omega} = -1/3$) is carried out using Klein Gordon equation. The WKB approximation method is used to determine the tunnelling rate of scalar particles across the event horizon of the black hole . The emitted spectrum is found to be thermal and the corrected Hawking Temperature is obtained.